● PRINTER RUSH ● (PTO ASSISTANCE)

ITN: CI	7:09 Draf	Tracking #: <i>ep.</i> ナックマンS Oハ	IDC FMF FDC	Week Date: 7	25-05
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NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.

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FIG. 1

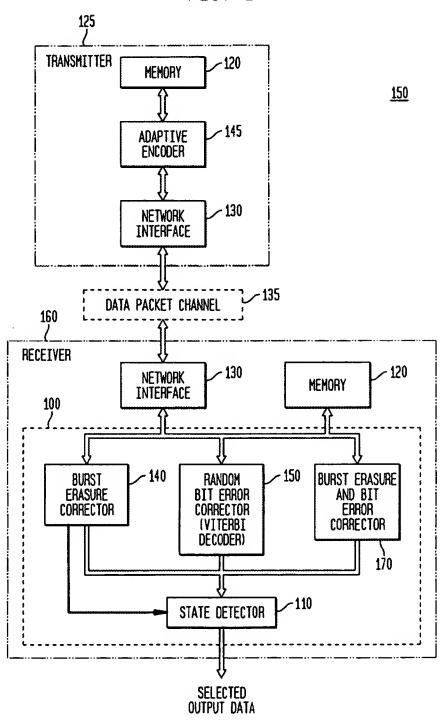


	FIG.	2
ef a 1	.(:)	₁ ₁ ₁ ₂ ₁ ₁ ₁ ₁ ₁ ₁ ₁ ₁ ₁ ₁
ÿ[i]=	x[i]	x[i-3]
ÿ [i+1]=	x[i+1]	x[i-2]
ÿ[i+2]=	x[i+2]	x[i-1]
ÿ[i+3]=	x[i+3]	x[i]
ÿ[i+4]=	x[i+4]	x[i+1]
ÿ[i+5]=	x[i+5]	x(i+2)
ÿ[i+6]=	x[i+6]	x(i+3)
ÿ[i+7]=	x[i+7]	x[i+4]

FIG. 3

ÿ[0]=	x ₀ [0]	x ₁ [0]	x ₂ [0]	0
ÿ[1]=	x ₀ [1]	x ₁ [1]	x ₂ [1]	x ₀ [0]
ý[2]=	x ₀ [2]	x ₁ [2]	x ₂ [2]	x ₀ [1] ⊕ x ₁ [0]
ý[3]=	x ₀ [3]	x ₁ [3]	x ₂ [3]	$x_0[2] \oplus x_1[1] \oplus x_2[0]$
ÿ[4]=	x ₀ [4]	x ₁ [4]	x ₂ [4]	$x_0[3] \oplus x_1[2] \oplus x_2[1]$

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FIG. 4

	ŷ[0]=	x ₀ [0]	x ₁ [0]	x ⁵ [0]	0
	ŷ[1]=	x ₀ [1]	x ₁ [1]	x ₂ [1]	x ₀ [0]
	ŷ[2]=	x ₀ [2]	x ₁ [2]	x ₂ [2]	$x_0[1] \oplus x_1[0]$
	ý[3]=	x ₀ [3]	x ₁ [3]	x ² [3]	$x_0[2] \oplus x_1[1] \oplus x_2[0]$
SYMBOL ERASED -	ŷ[4]=	x ₀ [4]	x ₁ [4]	x ₂ [4]	$x_0[3] \oplus x_1[2] \oplus x_2[1]$
DECODE x ₀ [4] HERE -	ŷ[5]=	x ₀ [5]	x ₁ [5]	x ₂ [5]	$x_0[4] \oplus x_1[3] \oplus x_2[2]$
DECODE x ₁ [4] HERE -	ŷ[6]=	x ₀ [6]	x ₁ [6]	x ⁵ [8]	$x_0[5] \oplus x_1[4] \oplus x_2[3]$
DECODE x ₂ [4] HERE -	ŷ[7]=	x ₀ [7]	x ₁ [7]	x ₂ [7]	$x_0[6] \oplus x_1[5] \oplus x_2[4]$

FIG. 5

		•			
	ÿ[0]=	x ₀ [0]	x ₁ [0]	x ₂ [0]	0
	ÿ[1]=	x ₀ [1]	x ₁ [1]	x ₂ [1]	0
	ŷ[2]=	x ₀ [2]	x ₁ [2]	x ₂ [2]	x ₀ [0]
	ŷ[3]=	x ₀ [3]	x ₁ [3]	x ₂ [3]	x ₀ [1]
	ÿ[4]=	x ₀ [4]	x ₁ [4]	x ₂ [4]	$x_0[2] \oplus x_1[0]$
	ÿ[5]=	x ₀ [5]	x ₁ [5]	x ₂ [5]	$x_0[3] \oplus x_1[1]$
SYMBOL ERASED -	ý[6]=	x ₀ [6]	x ₁ [6]	x ₂ [6]	$x_0[4] \oplus x_1[2] \oplus x_2[0]$
SYMBOL ERASED -	ý[7]=	x ₀ [7]	x ₁ [7]	x ₂ [7]	$x_0[5] \oplus x_1[3] \oplus x_2[1]$
RECOVER x ₀ [6] HERE→	ý[8]=	x ₀ [8]	x ₁ [8]	x ₂ [8]	$x_0[6] \oplus x_1[4] \oplus x_2[2]$
RECOVER x ₀ [7] HERE-	ÿ[9]=	x ₀ [9]	x ₁ [9]	x ₂ [9]	$x_0[7] \oplus x_1[5] \oplus x_2[3]$
RECOVER x ₁ [6] HERE-	ÿ[10]=	x ₀ [10]	x ₁ [10]	x ₂ [10]	$x_0[8] \oplus x_1[6] \oplus x_2[4]$
RECOVER x ₁ [7] HERE→	ý[11]=	x ₀ [11]	x ₁ [11]	x ₂ [11]	$x_0[9] \oplus x_1[7] \oplus x_2[5]$
RECOVER x ₂ [6] HERE→	ÿ[12]=	x ₀ [12]	x ₁ [12]	x ₂ [12]	$x_0[10] \oplus x_1[8] \oplus x_2[6]$
RECOVER x ₂ [7] HERE→	ÿ[13]=	x ₀ [13]	x ₁ [13]	x ₂ [13]	$x_0[11] \oplus x_1[9] \oplus x_2[7]$

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	$\hat{y}[0] = x_0[0]$	x ₁ [0] x ₂ [0]	0
	$\hat{y}[1] = x_0[1]$	x ₁ [1] x ₂ [1]	P(x ₀ [0],0,0,0)
	$\hat{y}[2] = x_0[2]$	x ₁ [2] x ₂ [2]	P(x ₀ [1],x ₀ [0],0,0}
SYMBOL ERASED -	$\hat{y}[3] = x_0[3]$	x ₁ [3] x ₂ [3]	P(x ₀ [2],x ₀ [1],x ₁ [0],x ₂ [0]}
SYMBOL ERASED -	$\hat{y}[4] = \begin{bmatrix} x_0[4] \end{bmatrix}$	x ₁ [4] x ₂ [4]	P(x ₀ [3].x ₀ [2].x ₁ [1].x ₂ [1])
RECOVER $x_0[3]$, $x_0[4]$ HERE \rightarrow	$\vec{y}[5] = x_0[5]$	$x_1[5]$ $x_2[5]$	P(x ₀ [4].x ₀ [3].x ₁ [2].x ₂ [2]}
RECOVER x ₁ [3], x ₂ [3] HERE→	$\hat{y}[6] = x_0[6]$	$x_1[6]$ $x_2[6]$	P(x ₀ [5],x ₀ [4],x ₁ [3],x ₂ [3])
RECOVER $x_1[4]$, $x_2[4]$ HERE \rightarrow	$\hat{\mathbf{y}}[7] = \mathbf{x}_0[7]$	$x_1[7]$ $x_2[7]$	P(x ₀ [6],x ₀ [5],x ₁ [4],x ₂ [4]}

FIG. 7

x[i]	$x(i-3) \oplus x(i-4) \oplus x(i-5)$
x[i+1]	x[i-2] \(\phi\) x[i-3] \(\phi\) x[i-4]
x[i+2]	x(i-1) \(x(i-2) \(\Phi \) x(i-3)
x(i+3)	x[i] \(\phi\) x[i-1] \(\phi\) x[i-2]
x[i+4]	x[i+1] \(\Theta\) x[i] \(\Theta\) x[i-1]
x[i+5]	x[i+2] \(\Theta\) x[i+1] \(\Theta\) x[i]
x[i+6]	x[i+3] \(\Phi\) x[i+2] \(\Phi\) x[i+1]
x[i+7]	x[i+4] \(\phi\) x[i+3] \(\phi\) x[i+2]
	x(i+1) x(i+2) x(i+3) x(i+4) x(i+5) x(i+6)

FIG. 8

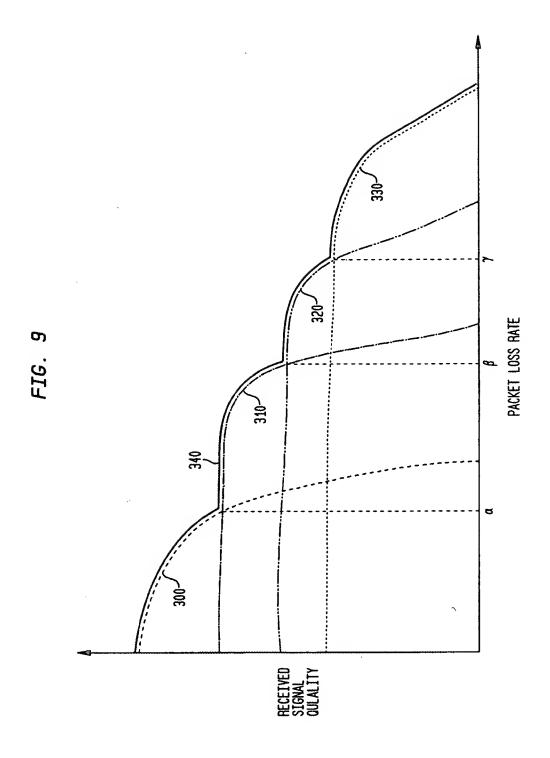
$$x[i-1] = y_0[i-1]$$

$$x[i] = y_0[i]$$

$$x[i+1] = y_1[i+4] \oplus x[i] \oplus x[i-1]$$

$$x[i+2] = y_1[i+5] \oplus x[i+1] \oplus x[i]$$

$$x[i+3] = y_1[i+6] \oplus x[i+2] \oplus x[i+1]$$



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FIG. 10

